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MEMBRANE-BOUND CYTOKINE COMPOSITIONS AND  
METHODS OF MODULATING AN IMMUNE RESPONSE USING SAME

ABSTRACT

The present invention provides a cellular  
5 vaccine having a membrane-bound fusion protein that  
includes a non-antibody immunomodulatory molecule, <sup>such as GM-CSF</sup>  
operatively fused to a heterologous membrane attachment  
domain. Non-antibody immunomodulatory molecules useful  
in the invention include immunostimulatory and  
10 immunosuppressive molecules such as cytokines. In one  
embodiment, the invention provides a cellular vaccine  
having a membrane-bound fusion protein that includes a  
non-antibody immunomodulatory molecule operatively fused  
to a heterologous membrane attachment domain and,  
15 additionally, a disease-associated antigen or immunogenic  
epitope thereof. Further provided by the invention are  
methods of modulating an immune response against a  
disease-associated antigen by administering to an  
individual a cellular vaccine having a membrane-bound  
20 fusion protein that includes a non-antibody  
immunomodulatory molecule operatively fused to a  
heterologous membrane attachment domain.

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